

Royal El Minya White Cement

CEMII/B-LL 42.5 R

Royal El Minya White Portland Cement CEMII/B-LL 42.5 R, it complies with EN 197-1:2011 High-quality binder offering excellent strength, durability, and environmental benefits. With a carefully balanced limestone addition, it enhances workability and reduces the CO<sub>2</sub> footprint while maintaining strong performance.

Advantages

- Good workability – Smooth mixing and application.
- Reliable strength – Ensures structural durability.
- Eco-friendly – Lower CO<sub>2</sub> emissions and reduced environmental impact.
- Optimized setting time – Balanced hydration for efficiency.
- Strong adhesion – Ideal for masonry and precast applications.
- Cost-effective – Energy-efficient with lower material costs.

Applications

- Structural concrete – Ideal for reinforced and non-reinforced structures.
- Masonry mortars & plasters – Ensures smooth application and good adhesion.
- Precast elements – Used in blocks, pipes, tiles, and other prefabricated components.
- General construction – Suitable for residential, commercial, and infrastructure projects.
- Screeds & flooring – Provides strong bonding and durability.
- Soil stabilization – Enhances foundation and road subgrade strength.
- Sustainable building – Eco-friendly choice.

Cement Composition

- Portland cement clinker 65% to 79%
- Limestone 21% to 35 %
- Minor additional constituents 0.0 to 5.0 %

Storage Conditions

- Storage:**  
Recommended to retest after 6 weeks from the packing date if stored for long durations.
- Shelf Life:**  
Store in dry, moisture-free conditions to maintain product integrity.

Chemical, Physical & Mechanical Properties

Parameter	Royal	Unit	Standard
SO <sup>3</sup> (%)	3.0 ± 0.3	%	≤ 4
Chlorine (%)	0.050 ± 0.015	%	≤ 0.1
Hexavalent Chromium	≤ 0.6	ppm	≤ 2.0
Whiteness	≥ 86.0	%	-
Initial Setting (min.)	180 ± 20	min	≥ 60
Soundness - (expansion)	2 ± 0.5	mm	≤ 10
2 Days Compressive Strength (N/mm <sup>2</sup> )	≥ 25 ± 2	N/mm <sup>2</sup>	≥ 20
28 Days Compressive Strength (N/mm <sup>2</sup> )	≥ 48 ± 2	N/mm <sup>2</sup>	≥ 42.5

Packaging & Shipping Options

- Bulk Transport:**
  - Shipped in vessels and containers for global export.
- Bagged Cement:**
  - Available in 25 kg, 40 kg, and 50 kg bags.
  - Material options: P.P, C.P3L+PE, and C.P 3L+PE.
  - Securely packed on pallets.
  - Customization is available to meet specific customer requirements.
- Big Bags (Jumbo Bags):**
  - Customized as per customer request, with or without pallets, ensuring flexible packaging and transport solutions.

